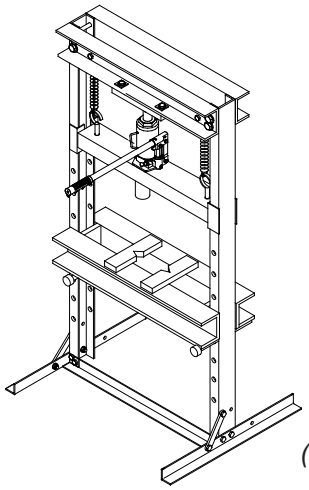
# Operating Instructions Manual

# Shop Press

## *(Equipped w/ Bottle Jack)*

| Model | Capacity |
|---|---|
| 60120 | 12 Ton |
| 60200 | 20 Ton |



*(60200 shown)*

This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

## ⚠ ADVERTENCIA

- Leer, comprender, y seguir las instrucciónes antes de utilizar el aparato.
- El manual de instrucciónes y la información de seguridad deben estar comunicado en lengua del operador antes del uso.
- No seguir estas indicaciónes puede causar daños personales o materiales.

**SFA Companies**
http://www.omegalift.com

**Read this manual and follow all the Safety Rules and Operating Instructions before using this product.**

Printed in China
60120-MR 01/08

## SAFETY and GENERAL INFORMATION

**Save these instructions.** For your safety, read, understand, and follow the information provided with and on this product before using. The owner and operator of this equipment shall have an understanding of this product and safe operating procedures before attempting to use. The owner and operator shall be aware that use and repair of this product may require special skills and knowledge. Instructions and safety information shall be conveyed in the operator's native language before use of this jack is authorized. If any doubt exists as to the safe and proper use of this jack, remove from service immediately.

**Inspect before each use.** Do not use if broken, bent, cracked or damaged parts are noted. Any press that appears damaged in any way, or operates abnormally shall be removed from service immediately. If any component of this product has been subjected to a shock load (a load dropped suddenly, unexpectedly upon it), immediately discontinue use until checked by a factory authorized service center (contact distributor or manufacturer for list of authorized service centers). It is recommended that an annual inspection be done by qualified personnel. Labels and Operator's Manuals are available from manufacturer.

## PRODUCT DESCRIPTION

This Shop Press is designed for automotive, truck, implement, fleet, and industrial repair shops where pressing, bending, straightening and forming, is required. Typical applications include installation and removal of alternator and power steering pump bearings, axle bearings, transmission bearings, seals, u-joints and others. It is not intended for use as an assembly table or as fixture stand used to secure a large, final assembly component. **Unlike** presses equipped with a separately mounted pump, the power unit on this press **can not** be equipped with a pressure gauge, therefore monitoring the load must be done by other means, such as a load cell w/ digital indicator. Whatever means is chosen, the load measuring means shall be calibrated on a yearly basis.

## SPECIFICATIONS

| Model | Capacity | Dimensions (W x D x H) | Min. Working Space | Max. Working Space | Bed Position | Hydraulic Stroke |
|---|---|---|---|---|---|---|
| 60120 | 12 Ton | 22 3/4" x 18 1/2" x 59" | 2 5/8" | 34 3/8" | 8 | 6" |
| 60200 | 20 Ton | 28" x 28" x 64 1/2" | 2 1/2" | 34 1/8" | | |

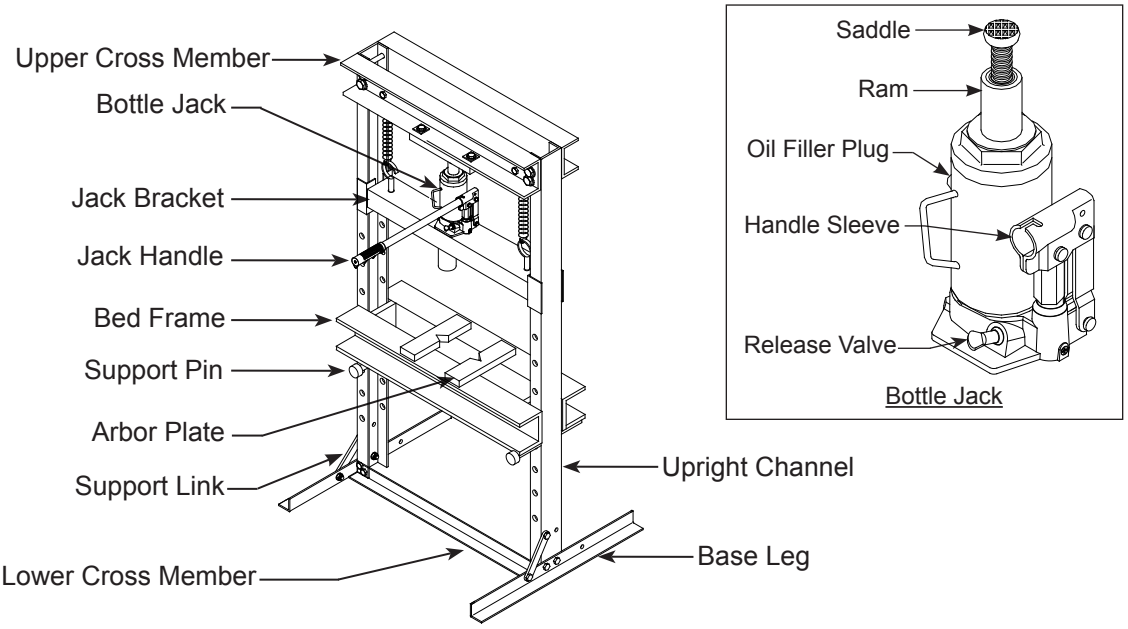



Figure 1 - Shop Press Components *(60200 shown)*

# PREPARATION

**Before Use**

1. Verify that the product and application are compatible, if in doubt call Omega technical service (888) 332-6419.
2. Before using this product, read the operator's manual completely and familiarize yourself thoroughly with the product, its components and recognize the hazards associated with its use.
3. To familiarize yourself with basic operation of bottle jack, use the notched (or stamped) end of provided handle to engage and turn the release valve:
   a. Clockwise until firm resistance is felt to further turning. This is the '**CLOSED**' release valve position used to **extend** the ram.
   b. Counter-clockwise, but no more than 1 full turn from the closed position. This is the '**OPEN**' release valve position used to **retract** the ram.
4. With ram fully retracted, remove the oil filler plug. Insert the handle into the handle sleeve, then pump 6 to 8 strokes. This will help release any pressurized air, which may be trapped within the reservoir. Ensure the oil level is just below the oil filler hole. Reinstall the oil filler plug.
5. Check that the pump operates smoothly and that the extension screw will thread up/down easily before putting into service. Replace worn or damaged parts and assemblies with Omega authorized replacement parts only.

**Bleeding / Venting Trapped Air**

With the release valve in the OPEN position (3b above) and with ram fully lowered, remove the oil filler plug. Insert handle into the handle sleeve; then pump 6 to 8 full strokes. This will help release any pressurized air which may be trapped within the reservoir. Oil level should be even with the bottom of the oil filler hole. Reinstall the oil filler plug.

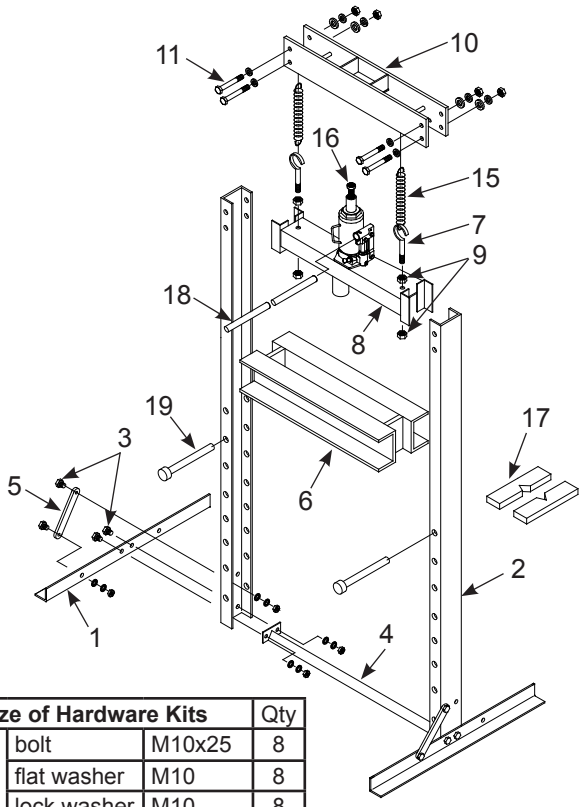
**Assembly**

**Model 60120:** *(Refer to Figure 2)*

**Note:** Do not tighten any bolts unless told to do so.

1. Attach base legs *(1)* and lower cross member *(4)* to upright channels *(2)* with bolts, flat washers, lock washers and nuts *(3)*. Hand tighten only.
2. Attach support links *(5)* to the base *(1)* and upright channels *(2)* with bolts, flat washers, lock washers and nuts *(3)*.
3. Carefully slide bed frame *(6)* down to lowest possible position between the upright channels *(2)*.
4. Attach screw hooks *(7)* to the jack bracket *(8)* with nuts *(9)* as shown in figure 2. Leave nut untighten to provide easy spring attachment.
5. Slide the jack bracket *(8)* down between upright channels *(2)* onto the bed frame *(6)*.
6. Attach upper cross member *(10)* to upright channels *(2)* with bolts, flat washers, lock washers and nuts *(11)*.
7. Attach one end of the springs *(15)* to the axles of upper cross member *(10)* and the other end to the screw hooks *(7)* on the jack bracket.
8. Carefully place the bottle jack *(16)* between the head plate of upper cross member *(10)* and jack bracket *(8)*. Tighten the nuts *(9)* that hold screw hooks *(7)* to prevent jack from inadvertently falling out.
9. **Tighten all applicable nut and bolt assemblies**.
10. Carefully bring the bed frame *(6)* up and secure it with pins *(9)*.
11. Place the Arbor Plates *(17)* on Bed Frame *(6)*.
12. The press is now ready to use. Don't forget to insert the handle *(18)* into handle sleeve of bottle jack.

***NOTICE*: *Before **disassembly**, carefully slide bed to its fully lowered position.***




| Size of Hardware Kits | | | Qty |
|---|---|---|---|
| 3 | bolt | M10x25 | 8 |
| | flat washer | M10 | 8 |
| | lock washer | M10 | 8 |
| | nut | M10 | 8 |
| 9 | nut | M8 | 4 |
| 11 | bolt | M16x120 | 4 |
| | flat washer | M16 | 8 |
| | lock washer | M16 | 4 |
| | nut | M16 | 4 |

Figure 2 - Assembly Illustration for model 60120

**Assembly**
**Model 60200:** *(Refer to Figure 3)*

**Note:** Do not tighten any bolts unless told to do so.

1. Attach base legs *(1)* to upright channels *(2)* with bolts, lock washers and nuts *(3)*. Hand tighten only.
2. Attach lower cross member *(4)* to upright channels *(2)* with bolts, lock washers and nuts *(3)*.
3. Attach support links *(5)* to the base *(1)* and upright channels *(2)* with bolts, lock washers and nuts *(3)*.
4. Carefully slide bed frame *(6)* down to lowest possible position between the upright channels *(2)*.
5. Attach the screw hooks *(7)* to the jack bracket *(8)* with nuts *(9)*. Leave nut untighten to provide easier spring attachment later.
6. Slide the jack bracket *(8)* down between upright channels (2) onto the bed frame *(6)*.
7. Attach upper cross members *(10)* to upright channels *(2)* with bolts, flat washers, lock washers and nuts *(11)*.
8. Attach head plate *(12)* to upper cross members *(10)* with bolts, lock washers and square washers *(13)*.
9. Attach two bolts, lock washers and nuts *(14)* thru the upper cross member *(10)*. Then attach one end of the springs *(15)* to the bolts (14) and the other end to the screw hooks *(7)* on the jack bracket.
10. Carefully place the bottle jack *(16)* between the head plate *(12)* and jack bracket *(8)*. Tighten the nuts *(9)* that hold screw hooks *(7)* to prevent jack from inadvertently falling out.
11. **Tighten all applicable nuts and bolt assemblies.**
12. Carefully bring the bed frame *(6)* up and secure it with pins *(19)*.
13. Place the Arbor Plates *(17)* on Bed Frame *(6)*.
14. The press is now ready to use. Don't forget to insert the handle *(18)* into handle sleeve of bottle jack

***NOTICE*: *Before ***disassembly**, carefully slide bed to its fully lowered position.***

| Size of Hardware Kits | | | Qty |
|---|---|---|---|
| 3 | bolt | M10x25 | 12 |
| | lock washer | M10 | 12 |
| | nut | M10 | 12 |
| 9 | nut | M8 | 2 |
| 11 | bolt | M16x150 | 4 |
| | flat washer | M16 | 8 |
| | lock washer | M16 | 4 |
| | nut | M16 | 4 |
| 13 | bolt | M10x25 | 4 |
| | lock washer | M10 | 4 |
| | square washer | M10 | 4 |
| 14 | bolt | M10x130 | 2 |
| | lock washer | M10 | 2 |
| | nut | M10 | 2 |

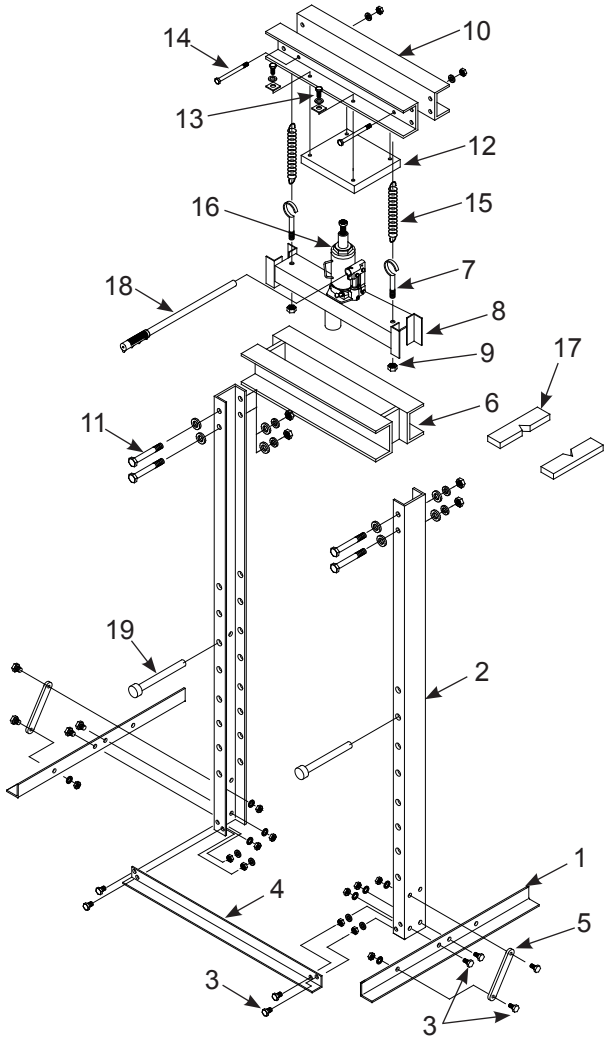



Figure 3 - Assembly Illustration for model 60200

## ⚠ WARNING

- **Study, understand, and follow** all printed materials provided with/on this product before use.
- **Always** use an adequately rated, calibrated load cell with digital indicator to monitor pressing force!
- **Do not** exceed rated capacity.
- Use the device only on a hard, level surface.
- Always wear safety goggles when working on or near this equipment.
- Keep hands, feet and all other body parts away from loading area.
- Never leave loaded press unattended.
- Projectile hazard! Ensure workpiece and any attachment is centrally loaded and a **safety shield is installed** around workpiece to help protect against projectiles.
- Do not modify this device beyond installing a shield to protect against projectiles.
- Ensure the user is familiar with the controls and operational characteristics of this product and aware of the potential hazards associated with its use.
- **Failure** to heed these markings may **result** in **personal injury and/or property damage**.

## OPERATION

***Projectile Hazard!*** *Wear ANSI approved eye protection. Never stand directly in front of loaded press. Ensure that workpiece is center-loaded and secure. Reduce risk of flying debris by carefully following all operating instructions. Know your press and hazards associated with its use.*

***Crush Hazard!*** *Keep hands and feet from bed area at all times.*

1. Insert the support pins to desired height, then lower the bed. Ensure bed frame is fully rested on the support pins.
2. Place arbor plates on the bed frame as needed.
3. Place workpiece on bed frame, using every precaution necessary to ensure your safety and prevent property damage. Position workpiece in a manner which will not allow it to inadvertently fall from bed.
4. With notched end of jack handle, close release valve by turning it clockwise firmly, until tight.
5. Insert jack handle into handle sleeve and pump until ram nears workpiece.
6. Align ram and workpiece to ensure center-loading.
7. Apply load to workpiece by pumping handle. **Do not overload workpiece**.
8. Stabilize workpiece in a manner which will not allow it to inadvertently fall from the bed once the load is removed, then turn release valve counter-clockwise to retract the ram and remove workpiece.

⚠ *Use only handle provided by manufacturer. The handle provided with this product will safely engage the release valve of bottle jack and operate the handle sleeve. If handle is worn, operates abnormally, or will not positively engage the release valve,* ***STOP****, discontinue use of the jack until a factory replacement handle can be acquired.*

⚠ ***Unlike*** *presses equipped with a separately mounted pump, the power unit on this press* ***can not*** *be equipped with a pressure gauge, therefore monitoring the load* ***must*** *be done by other means, such as a load cell w/ digital indicator. Whatever means is chosen, the load measuring means shall be calibrated on a yearly basis.*

## MAINTENANCE

Before each use, inspect press for damage. Do not use if bent, broken, cracked, leaking or otherwise damaged components are noted. Periodically, lightly oil all moving parts, including the pump piston and ram.

**Adding/Changing oil to bottle jack**

**Important:** Use only good grade hydraulic jack oil. Avoid mixing different types of fluid and NEVER use brake fluid, turbine oil, transmission fluid, motor oil or glycerin. Improper fluid can cause premature failure of the jack and the potential for sudden and immediate loss of load. Mobil DTE 13M or equivalent recommended.

1. Remove jack from press frame.
2. With ram fully lowered and pump piston fully depressed, set jack in its upright, level position. Remove oil filler plug.
3. Drain used fluid into a suitable container
   **Note**: Dispose of hydraulic oil in accordance with local regulations.
4. Fill until oil is level with or just below filler plug hole.

R**ust prevention**

Check ram and pump piston for signs of rust on a regular basis. Clean as needed with a lint free, oil saturated cloth.

## TROUBLESHOOTING

| Symptom | Possible Causes | Corrective Action |
|---|---|---|
| Ram will not press load | • Release valve not tightly closed<br>• Overload condition | • Ensure release valve tightly closed<br>• Remedy overload condition |
| Ram bleeds off after press operation | • Release valve not tightly closed<br>• Bottle Jack malfunction | • Ensure release valve tightly closed<br>• Contact Omega Tech. Service |
| Ram will not retract after unloading | • Reservoir overfilled<br>• Linkage binding | • Remove bottle jack, then drain fluid to proper level<br>• Clean and lubricate moving parts |
| Poor lift performance | • Fluid level low<br>• Air trapped in system | • Ensure proper fluid level<br>• With ram fully retracted, remove oil filler plug to let pressurized air escape, then reinstall oil filler plug |
| Ram will not extend to full extension | • Fluid level low | • Ensure proper fluid level |

## REPLACEMENT PARTS

Not all components of the press are replacement items, but are illustrated as a convenient reference of location and position in the assembly sequence. When ordering parts, please give the Model number and parts description. Call or write for current pricing: SFA Companies 10939 N. Pomona Ave. Kansas City, MO 64153, U.S.A.
E-Mail: sales@omegalift.com Tel: (888) 332-6419 Fax: (816) 891-6599 Website: http://www.omegalift.com

| Item | Part# for model: | | Description | Qty |
|---|---|---|---|---|
| | 60120 | 60200 | | |
| 1 | T060-05000-000 | T126-00003-000 | Upper Cross Member | 1 |
| 2 | T060-00001-100 | | Spring | 2 |
| 3 | T060-00002-100 | | Screw Hook | 2 |
| 4 | B120-10000-000 | B200-10000-000 | Bottle Jack | 1 |
| 5 | T060-04000-000 | T126-02000-000 | Jack Bracket | 1 |
| 6 | B080-20000-000 | T126-03000-000 | Jack Handle | 1 |
| 7 | T060-00003-100 | T126-00001-000 | Upright Channel | 2 |
| 8 | T060-02000-000 | T125-01000-000 | Support Pin | 2 |
| 9 | T184-00004-000 | | Support Link | 2 |
| 10 | T060-00006-000 | T184-00005-000 | Base Leg | 2 |
| 11 | T060-03000-000 | T125-02000-000 | Bead Frame | 1 |
| 12 | T060-01000-100 | T184-00006-000 | Lower Cross Member | 1 |
| 13 | T184-00007-000 | T125-00007-000 | Arbor Plates (pair) | 1 |
| 14 | - | T126-01000-000 | Head Plate | 1 |
| - | T060-06000-000 | T126-04000-000 | Hardware Kit | - |

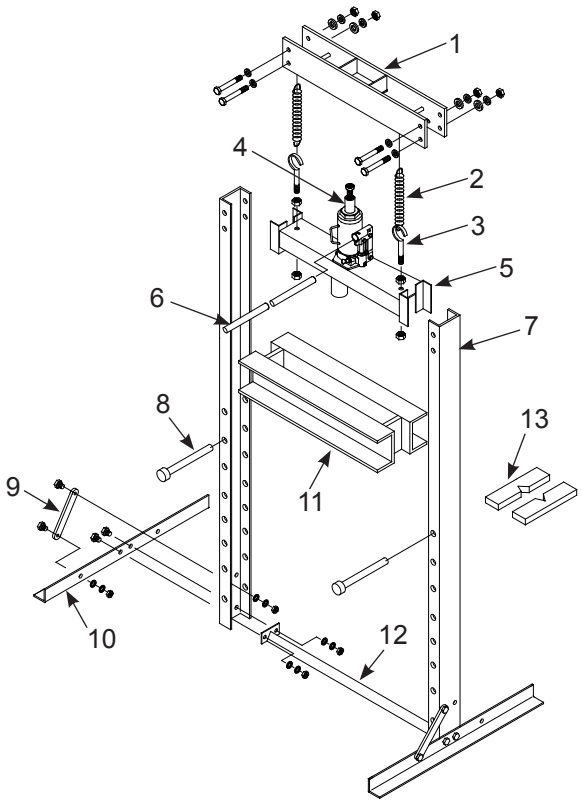



Figure 4 - Replacement Parts Illustration for 60120

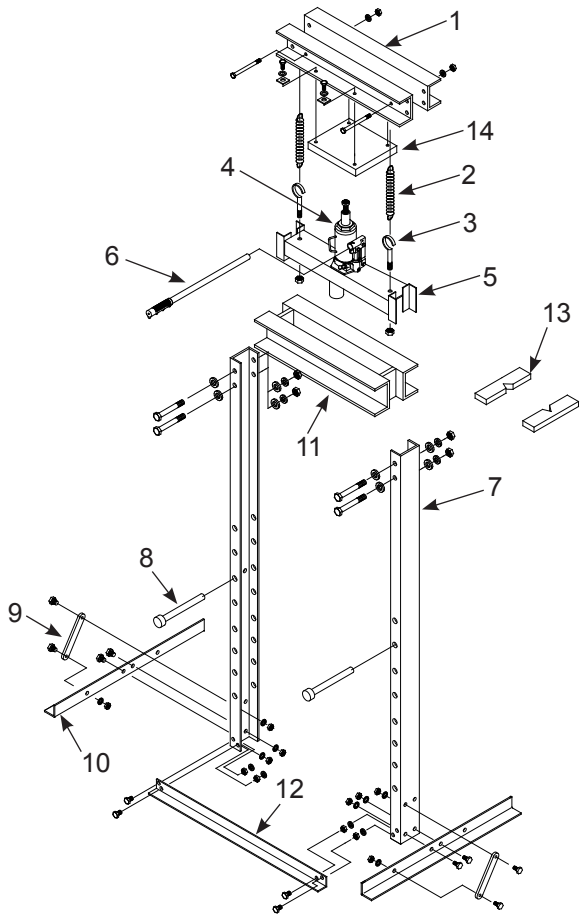



Figure 5 - Replacement Parts Illustration for 60200

# ONE YEAR LIMITED WARRANTY

For a period of one (1) year from date of purchase, SFA Companies will repair or replace, at its option, without charge, any of its products which fails due to a defect in material or workmanship under normal usage. This limited warranty is a consumer's exclusive remedy.

Performance of any obligation under this warranty may be obtained by returning the warranted product, freight prepaid, to SFA Companies Warranty Service Department, 10939 N. Pomona Ave., Kansas City, MO 64153.

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Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights, which vary from state to state.